

WHAT IS CLAIMED IS:

1. A transmission device for a gym bicycle comprising:

a base;

a first axle rotatably installed in the base;

a first driving wheel mounted on the first axle and rotatable along with the first axle;

a second axle installed in the base and parallel to the first axle;

a driven wheel rotatably mounted on the second axle by a first bearing and connected with the first driving wheel by a first belt;

a second driving wheel rotatably mounted on the second axle by a bearing and mounted on the driven wheel by a one-direction bearing;

a third axle installed in the base and parallel to the first and second axles; and

a flywheel rotatably mounted on the third axle by two second bearings and connected with the second driving wheel by a second belt.

2. The transmission device as claimed in claim 1, wherein the base has a U-like shape constructed by a bottom plate and two upright plates, each upright plate with a top edge, a rear edge and a front edge, the upright plates have a pair of first notches defined therethrough at the rear edges, a pair of second notches defined therethrough at the top edges, and a pair of third notches defined therethrough at the front edges, the first axle is installed in the first notches by a pair of bearing seats, the second axle is installed in the second notches by a pair of vertical adjusting members, and the third axle is installed in the third notches by a pair of horizontal adjusting members.

1 3. The transmission device as claimed in claim 1, wherein the flywheel
2 has a driven tubular part extending from a center thereof and connected with the
3 second driving wheel by the second belt.

4 4. The transmission device as claimed in claim 1 further comprising an
5 idler wheel rotatably mounted outside the first belt and pressing against the first
6 belt to tightly abut the first belt to the driven wheel.

7 5. The transmission device as claimed in claim 1 further comprising a
8 magnetic damper installed outside the flywheel.